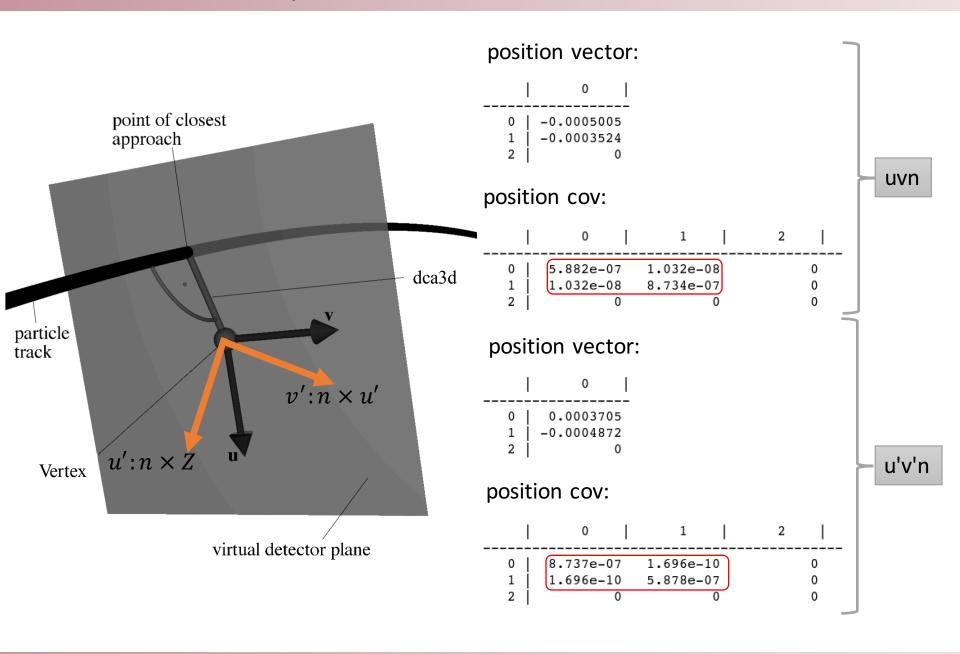




DCA3d

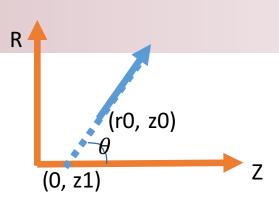
Jin Huang(BNL), Haiwang Yu (NMSU)

New dca3d decomposition

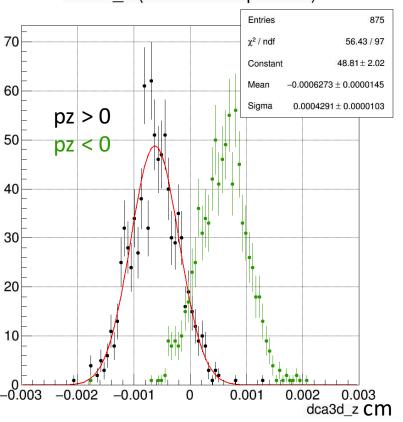


dca3d_z double peak structure

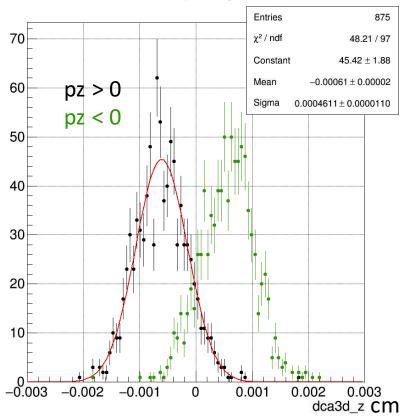
40 GeV muon. η (-0.5,0.5), ϕ (- π , π), vtx(-0.1,0.1)cm



Cylindrical MAPS + TPC dca3d_z (GenFit Extrapolation)



Cylindrical MAPS + TPC dca3d_z (Straightline)



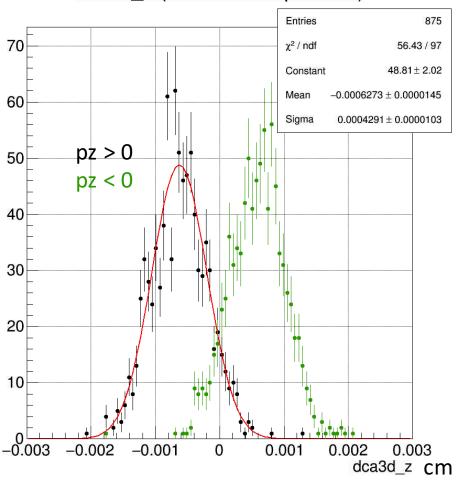
Debugging using Truth Tracking

Cylindrical MAPS + TPC:

MAPS: 12 micron for both ϕ and z resolution

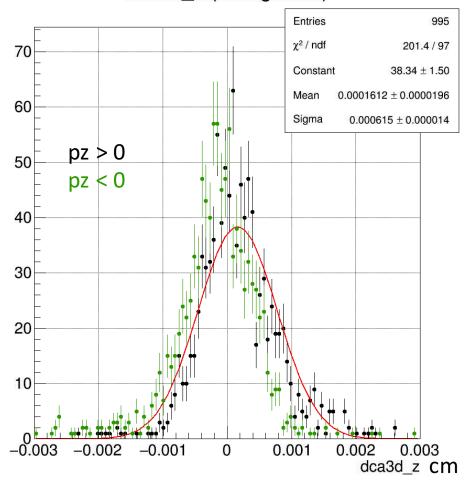
TPC: 0.011 at $r\phi$ direction, 0.03 cm at z direction

dca3d_z (GenFit Extrapolation)

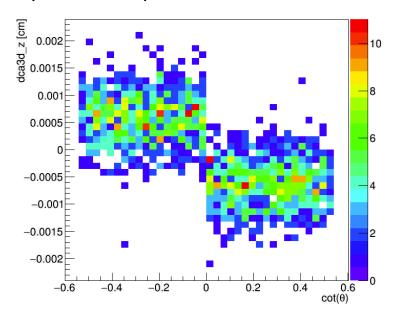


Truth Tracking 20 micron ϕ and z resolution

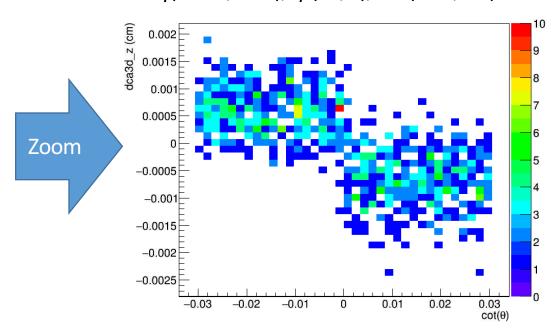
dca3d_z (Straightline)



 η (-0.5,0.5), ϕ (- π , π), vtx(-0.1,0.1)cm



 η (-0.03,0.03), ϕ (- π , π), vtx(-0.1,0.1)cm



Backups: